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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/874,453	06/05/2001	Varinder K. Kalra	CET-026177	5825

7590

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EXAMINER

VORTMAN, ANATOLY

ART UNIT

PAPER NUMBER

2835

DATE MAILED: 11/06/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/874,453

Applicant(s)

KALRA ET AL.

Examiner

Anatoly Vortman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 05 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 19 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.

Claim 19 recites the limitation "said guide portion". There is insufficient antecedent basis for this limitation in the claim.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4, 7, 9, 10, 12, and 15-20, are rejected under 35 U.S.C. 102(b) as being anticipated by US/1,466,423 to Conrad.

Regarding claims 1, 4, 7, 12, and 15, Conrad disclosed (Fig. 2-6) a fuse comprising a fuse body (11) comprising a first end a second end and a bore having a circular cross section and

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extending therethrough, said bore comprising a clearing portion having a first cross sectional area and a positioning portion (15) having a second cross sectional area; said first cross sectional area different (larger) than said second cross sectional area; and

a fuse element assembly (Fig. 3) situated in said bore (Fig. 4), said fuse element assembly comprising an outer dimension (41) substantially coextensive with said second cross sectional area, said outer dimension (41) substantially centered within said first cross sectional area, thereby ensuring a clearance between said fuse element assembly and said fuse body (11) within said clearing portion (Fig. 4, 5).

Regarding claims 2 and 18, Conrad disclosed that said clearing portion extends for a first length, said positioning portion (15) extends for a second length, said first length greater than said second length.

Regarding claims 3, 9, 10, 16 and, as best understood, regarding claims 19 and 20, Conrad disclosed that said bore further comprising a conical guide portion (17) having a third length which is less than said first length or said second length, and intermediate said clearing portion and said positioning portion (15), said guide portion (17) further comprising a cross sectional area intermediate said first cross sectional area and said second cross sectional area (Fig. 2).

Regarding claim 17, Conrad disclosed (Fig. 8) that said fuse element assembly comprises at least one fuse element (51) comprising a first end, a second end, and a central portion, said fuse element assembly situated in said bore so that said central portion of said at least one fuse element is disposed within said clearing portion (Fig. 4, 5).

*Claim Rejections - 35 USC § 103*

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 6, 8, and 13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad ('423).

Regarding claims 6, 8, and 13, Conrad disclosed all of the claims limitations as apply to claims 1, 7, and 12, respectively, but did not disclose that said fuse body (11) is fabricated from Alumina Zirconia.

Alumina Zirconia (ceramic) has been notoriously known in the fuse art at the time the invention was made as a well-suited material for manufacturing components of fuses. Therefore, it would have been obvious to a person of ordinary skill in the fuse art at the time the invention was made to select any suitable material, including said Alumina Zirconia ceramic, for making said fuse body of Conrad, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

7. Claims 5, 11, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conrad in view of US/5,214,406 to Reese et al., (Reese).

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Regarding claims 5, 11, and 14, Conrad disclosed all of the claims limitations as apply to claims 3, 7, and 12, respectively, but did not disclose that said fuse body is substantially rectangular and has substantially square end surfaces.

Reese disclosed a fuse (Fig. 1-5) having a fuse body, which is substantially rectangular, and has substantially square end surfaces.

Since the inventions of Conrad and Reese are from the same field of endeavor (electrical fuses), the purpose of the rectangular fuse body disclosed by Reese would be recognized in the invention of Conrad.

It would have been obvious to a person of ordinary skill in the fuse art at the time the invention was made to produce said fuse body of Conrad in substantially rectangular shape as taught by Reese in order, for example, to facilitate mounting of the fuse.

### *Conclusion*

8. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure:

US/4229723, 4253081, 4467308, 4952900, 4193053, 3735315, 3699490, 3629768, 3575682, and EP/0423897 disclosed fuses comprising fuse bodies having inner cavity of various cross sections.

US/6147585 and 4540969 disclosed electrical fuses having rectangular fuse bodies.

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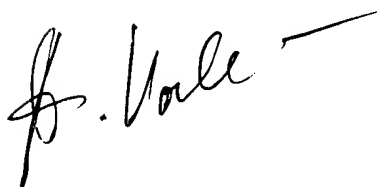
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 703-308-7824.

The examiner can normally be reached on 9:30-6:00, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg can be reached on 703-308-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

A.V.  
August 26, 2002



Anatoly Vortman  
Primary Examiner  
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